STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

January 8, 1985

Mr. H. Lutz Klingman
St. George Mining Corporation
50 East 100 South
St. George, Utah 84770

Dear Mr. Klingman:

RE: Annual Report MR-3, Apex Project, ACT/053/004, Washington County, Utah

Please complete the enclosed Annual Operations and Progress Report (MR-3) and return it to the Division no later than March 31, 1985. I realize this form is being used by a wide range of operations and there may be an item that does not apply to your mining operation. If this is the case, please indicate on the form.

Your prompt attention in this matter is appreciated. If you have any questions, please call Pamela Grubaugh-Littig or myself.

Thank you.

Respectfully,

Ronald W Daniels

Ronald W. Daniels
Acting Administrator
Mineral Resource Development
and Reclamation Program

PGL/btb
Enclosure
cc: Dianne Nielson
Pam Grubaugh-Littig
0077R

File
ACT/053/004

ST. GEORGE MINING CORP.

50 EAST 100 SOUTH - SUITE 201
ST. GEORGE, UTAH U.S.A. 84770

TELEPHONE (801) 628-3239

022

February 26, 1985

Mr. Ronald W. Daniels,
Acting Administrator,
Mineral Resource Development
and Reclamation Program,
State of Utah Natural Resources,
Oil, Gas & Mining,
4241 State Office Building,
Salt Lake City, Utah 84114.

Dear Mr. Daniels:

Enclosed please find our Annual Operations and Progress Report (MR-3) to December 31, 1984. This is our first report and I look forward to your comments plus a visit to the mine to review our progress.

Yours very truly,

H. Lutz Klingmann
President

HLK:ldv
Encl.

MR Form 3
(Revised 1984)

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year January, 1984
to Month/Year December, 1984

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR: St. George Mining Corporation MINE NAME: Apex Mine

ADDRESS: 50 East 100 South, Suite 201A, St. George, Utah 84770

PERMIT NUMBER AND DATE OF PERMIT: ACT/053/004 August 24, 1984

REPRESENTATIVE: R. L. Renaud, Project Manager

SECTION(S): 6/7 and 1/12 TOWNSHIP(S): 43 RANGE(S): 17 & 18 West

MINERAL(S) MINED: Mine being developed for production in 1985

STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: None

SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: None

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

Disturbance	Acreage
Pit	Nil
Roads	Nil
Facilities	Nil
Waste Dumps	Nil
Other	0.4

(b) Tabulation of acreage affected to date (by years).

Date by Year	Acreage (Total
1975	Nil
1976	Nil
1977	Nil
1978	Nil
1979	Nil
1980	Nil
1981	Nil
1982	Nil
1983	Nil

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	Area 1	2	3	etc.
Acreage of Area				
Depth of Topsoil Removal (inches)	Nil			
Depth of Topsoil Replacement (inches)*	Nil			
Estimate of Topsoil Volume Salvaged (yd^3 or ac ft)	Nil			
Volume Actually Salvaged (yd^3 or ac ft)	Nil			
Volume Required for Reclamation (yd^3 or ac ft)	Nil			
Surplus or Deficit Volume (yd^3 or ac ft)	N/A			
Storage Status (short- or long-term)	N/A			

Upper dump material was recovered, screened and trucked to the plant for future treatment. This work will continue into 1985.

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area 1	2	3	etc.
Storage Location	Nil			
Area Where Soil Has Been Used (if not stored)	N/A			
Running Total (all stockpiles) (yd^3 or ac ft)	Nil			
Short-term	Nil			
Long-term	Nil			

*Of previously stripped area recently reclaimed.

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

Area	Date	Acreage
Nil		

(e) Tabulation of quantity of commodity mined.

	Commodity	Tonnage
(Mined)	Gallium/Germanium ore	1,000
(Milled)	Nil	

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

1. Buildings and support facilities.

No new buildings constructed in 1984. Powerline to mine rehabilitated by Utah Power & Light.

2. Roads.

Road to Apex Mine was upgraded.

3. Diversion ditches, collector ditches, interceptor ditches, etc.
A 150 foot interceptditch was constructed around mine area.

4. Culverts.
A total of 8 culverts installed on the road to the Apex Mine

5. Sediment ponds, containment ponds.
Nil

6. Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.).
Nil

7. Topsoil stockpiles.
Nil

(g) Description of any environmental problem areas with a proposed plan for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.
Nil

2. Subsidence.
Nil

3. Accidental water discharge, dam failure, etc.
Nil

4. Slumping, sliding or erosion.
Nil

5. Revegetation problem areas.
Nil

6. Existence and location of unsuitable (toxic) overburden.
Nil

RECLAMATION:

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area	Acreage
Nil	

2. Topsoiled areas.

Area	Acreage
Nil	

3. Seeded areas.

Area	Acreage
Nil	

4. Reseeded areas (areas previously seeded, then seeded again).

Area	Acreage
Nil	

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

Year	Acreage
1975	Nil
1976	Nil
1977	Nil
1978	Nil
1979	Nil
1980	Nil
1981	Nil
1982	Nil
1983	Nil
1984	Nil

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.
N/A

2. Type of seed (species) used for seeding during the report period.
N/A

3. Date of seeding during the report period.

Spring N/A

Fall N/A

4. Seeding procedures used.

(Hand broadcast or drilled or any other).

N/A

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)

N/A

6. Type and rate of fertilizer applied.

N/A

7. Type and rate of mulch applied.

N/A

8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).

N/A

9. Revegetation test plot information.

(Cover, density, productivity, etc.)

N/A

10. Soil analysis results.
N/A

(d) Description of results of previous revegetation efforts, including: (This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.
N/A

2. Types (species) of seed that are not growing successfully.
N/A

3. Areas experiencing problems with weeds and weed types.
N/A

4. Significant erosional problems.
N/A

5. Areas of unsuitable overburden on the surface as related to revegetation failure.
N/A

6. Procedures used or proposed to correct these problems.
N/A

7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

Area	Date	Acreage
N/A		

8. Results of soil analysis.

N/A

(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	Acres	Cost/Acre
1. Grading		
2. Backfilling		
3. Contouring		
4. Topsoil Replacement		
5. Seeding	N/A	N/A
A. Seedbed Preparation		
B. Mulch		
C. Fertilizer		
D. Seed		
6. Other		

BOND INFORMATION:

A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	Amount	Type	Date Posted
Present Bond	$54,389.00	Reclamation Bond	August 2, 1984

Increased disturbance, if any:

Nil

Increased Bond Amount (attached reclamation estimate).

B. Bond release.

Acres	Bond Amount Released	Date
N/A	N/A	N/A

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

(a) Permit stipulations (status).
(b) Other special conditions (status).

APPENDIX I

ANNUAL REPORT MAPS

1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.

2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.

3. Maps must have a title block with:

   A. Map title.
   B. Name and address of permittee.
   C. Permit and amendment numbers.
   D. Annual report period.
   E. Scale, north arrow, contour interval, date of photography, etc.

4. All maps must show:

   A. Legal subdivisions.
   B. Permit area boundary clearly shown and labelled.
   C. Amendment areas clearly shown and labelled.
   D. Contour features.

5. The following features should all be clearly identified:

   A. Topsoil stockpiles (numbered and with volumes).
   B. Settling ponds and sediment control structures.
   C. Haul roads.
   D. Pits identified by location, name, number, etc.
   E. Ramps (numbered).
   F. Out-of-pit spoil dumps.
   G. All waste disposal sites including, but not limited to:
      1. Landfill sites.
      2. Carbonaceous waste dumps.
   H. Diversion ditches.
   I. Monitoring sites.

6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.